

## CLAIMS

1. A power output apparatus comprising:

first and second motor generators,

5 first and second inverters connected to said first and second motor generators, respectively, and receiving an input voltage from a voltage supply line, and

a control device controlling an operation of said first and second inverters such that AC voltage is generated across neutral points of said first and second motor generators using said input voltage,

10 wherein said control device controls said first and second inverters in coordination such that an intermediate value between a maximum value and a minimum value of voltage controls for said first and second motor generators is equivalent to an intermediate potential of said input voltage.

15 2. The power output apparatus according to claim 1, wherein said control device further controls an operation of said first inverter and/or said second inverter such that at least one of said first and second motor generators is driven using said input voltage.

20 3. The power operation apparatus according to claim 1, wherein said control device includes a coordination control unit that controls said first and second inverters in coordination by calculating said intermediate value, and subtracting said calculated intermediate value from each phase voltage control for said first and second motor generators.

25 4. The power output apparatus according to claim 1, wherein said control device further includes a voltage compensation unit compensating for voltage drop caused by internal impedance of said first and second motor generators.

5        5.    The power output apparatus according to claim 4, wherein said voltage compensation unit calculates a voltage compensation value based on AC current flowing across the neutral points of said first and second motor generators to correct a control value of the AC voltage that is to be generated across the neutral points of said first and second motor generators, using the calculated voltage compensation value.

10        6.    The power output apparatus according to claim 1, further comprising:  
         a DC power supply, and  
         an up-converter boosting DC voltage output from said DC power supply and  
         providing the boosted voltage onto said voltage supply line,  
         wherein said control device further controls an operation of said up-converter such that the DC voltage from said DC power supply is boosted to said input voltage.

15        7.    A vehicle comprising:  
         the power output apparatus defined in any one of claims 1-6,  
         an internal combustion engine coupled to the first motor generator included in said power output apparatus, and  
         a driving wheel coupled to the second motor generator included in said power output apparatus, and driven by said second motor generator,  
20        wherein the control device included in said power output apparatus controls an operation of the first and second inverters included in said power output apparatus such that said first and second motor generators are driven and AC voltage is generated across the neutral points of said first and second motor generators using said input voltage, and  
25        said first and second motor generators output the AC voltage generated across neutral points of each other to an external electric load electrically connected between said neutral points.